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graph TD
    102([GENERATE GRAMMAR]) --> 106[EXTRACT CHARACTER STRINGS  
(e.g., TITLES) FROM SEARCHABLE  
ITEMS]
    106 --> 108[PRE-PROCESS  
CHARACTER STRINGS]
    108 --> 110[EXPLODE EACH PHRASE INTO  
ITS INDIVIDUAL TERMS PLUS  
ALL FORWARD COMBINATIONS  
OF TERMS]
    110 --> 112[APPLY HEURISTICS]
    112 --> 114[OPTIONALLY INSERT  
CANNED UTTERANCES]
    114 --> 116[STORE RESULTING SET OF  
UTTERANCES FOR USE BY  
VOICE RECOGNITION SYSTEM]

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FIG. 1

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graph TD; 202([TITLE SEARCH]) --> 204[RETURN VOICEXML PAGE PROMPTING USER FOR A TITLE]; 204 --> 206[INTERPRET USER'S VOICE RESPONSE BY MATCHING IT TO AN UTTERANCE IN THE PREVIOUSLY GENERATED GRAMMAR]; 206 --> 208[GENERATE A TEXT SEARCH STRING]; 208 --> 210[SEARCH DATABASE FOR STRING]; 210 --> 212[RETURN VOICEXML PAGE WITH RESULTS];
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The flowchart illustrates the search process for a title. It begins with a terminal step (202) labeled "TITLE SEARCH". This leads to a process step (204) labeled "RETURN VOICEXML PAGE PROMPTING USER FOR A TITLE". The next step is a process step (206) labeled "INTERPRET USER'S VOICE RESPONSE BY MATCHING IT TO AN UTTERANCE IN THE PREVIOUSLY GENERATED GRAMMAR". This is followed by a process step (208) labeled "GENERATE A TEXT SEARCH STRING". The next step is a process step (210) labeled "SEARCH DATABASE FOR STRING". The final step is a terminal step (212) labeled "RETURN VOICEXML PAGE WITH RESULTS".

FIG. 2

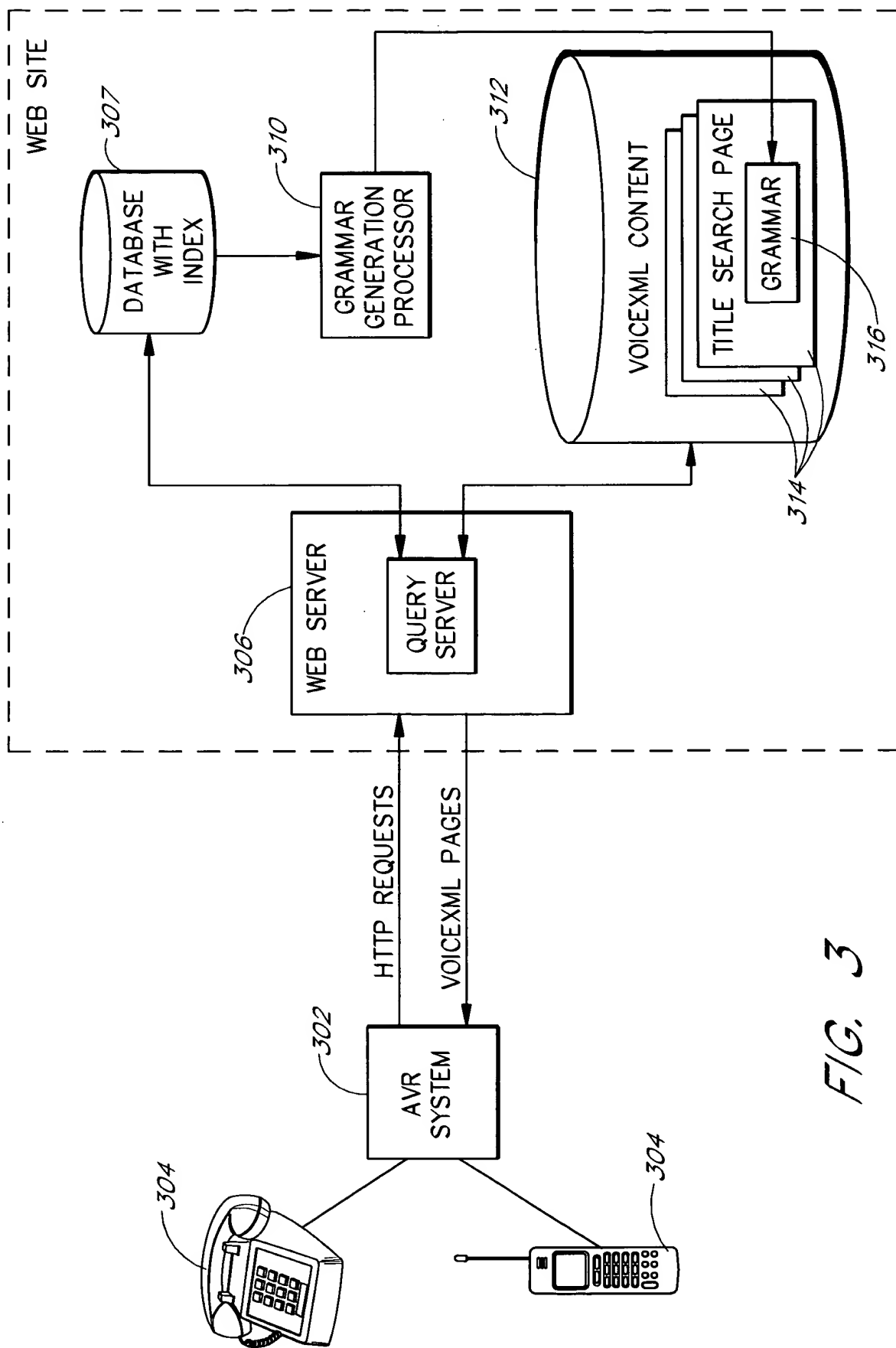


FIG. 3

FIG. 4

